GEARTECH	CHECKLIST	No. CK4000	SHEET 1 OF 1
		Rev. A	
Gearbox Design Audit		BY RLE	DATE 3/22/98
		CKD JRM	DATE 3/23/98

PROPOSAL DATA				
Question	Y	N	R	Comments
Does the proposal include the following documents:				
Load spectrum?				
Outline dimension drawing?				
Assembly drawing?				
Assembly bill of material?				
Lubrication schematic?				
Lube system bill of material?				
Detail drawings of gears?				
Detail drawings of shafts?				
Detail drawing of housing?				
Does the proposal include the following bearing data:				
Manufacturer?				
Type?				
Catalog number?				
Retainer type?				
Retainer material?				
Internal clearance?				

GEAR CALCULATIONS				
Question	Y	N	R	Comments
Does the proposal include the following gear calculations:				
Pitting resistance?				
Bending fatigue resistance?				
Scuffing resistance?				
Load capacity of shaft fits?				

BEARING CALCULATIONS				
Question	Y	N	R	Comments
Does the proposal include the following bearing calculations:				
Shaft fits?				
Housing fits?				
Life rating calculations?				

SHAFT CALCULATIONS				
Question	Y	N	R	Comments
Does the proposal include the following shaft calculations:				
Stresses?				
Deflections?				
Fatigue resistance of shaft/splines/keyways?				
Ultimate load capacity of shaft/splines/keyways?				

HOUSING CALCULATIONS				
Question	Y	N	R	Comments
Does the proposal include the following housing calculations:				
Stresses?				
Deflections?				
Fatigue resistance?				
Ultimate load capacity?				

GEARTECH	CHECKLIST	No. CK4000 Rev. A	SHEET 2 OF 2
Gearbox Design Audit		BY RLE	DATE 3/22/98
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Question	Y	N	R	Comments
Material grade?				
Heat treatment?				
Surface hardness?				
Effective case depth after grind?				
Core hardness?				
Magnetic particle inspection?				
Surface temper etch inspection?				

GEAR RATING CALCULATIONS

Question	Y	N	R	Comments
Are reasonable values chosen for the following parameters:				
Load spectrum?				
Material grade?				
Gear tooth accuracy?				
Surface hardness?				
Load distribution factor, C_m?				
Dynamic factor, C_v?				
Gear tooth temperature?				
Lubricant dynamic viscosity?				
Lubricant pressure-viscosity coefficient?				
Gear tooth surface roughness?				
Gear tooth coefficient of friction?				
Are Miner's Rule lives adequate?				
Do gears conform to AGMA/AWEA 921:				
Adequate life?				
Pinions have at least 20 teeth?				
Profile shift designed for balanced specific sliding?				
Aspect ratio $\leq$ 1.0 for single helical?				
Aspect ratio $\leq$ 2.0 for double helical?				
Profiles modified?				
Helices modified?				
Transverse contact ratio $\geq$ 1.4?				
Axial contact ratio $\geq$ 1.0?				
Accuracy $\geq$ AGMA Q =11?				

DESIGN CONTROL

Question	Y	N	R	Comments
